Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-02-02-05** **Date: 05-02-18**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Construction of CC roads and drains balance cross roads of attur Village in ward No.03

Agency : Sri.N.Jagadish, S/o T. Narayanappa, No.23, MBW Bicks, Ananthapura, SN Halli Post, Yelahanka Bangalore-560 064.

Customer's Reference : EE(Project)/YnkZone/WO/90/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-02-18

Sample ID No : 2018-02-02-05 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 02-02-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	133	133	13.3	86.7	90-100	90-100	90-100	95-100
3	2.36 mm	189	322	32.2	67.8	60-95	75-100	85-100	95-100
4	1.18 mm	100	422	42.2	57.8	30-70	55-90	75-100	90-100
5	600 micron	180	602	60.2	39.8	15-34	35-59	60-79	80-100
6	300 micron	197	799	79.9	20.1	5-20	8-30	12-40	15-50
7	150 micron	104	903	90.3	9.7	0-10	0-10	0-10	0-15
8	Pan	97	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-02-02-05** **Date: 05-02-18**

Sample ID No : 2018-02-02-05 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.85	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron(%)	8.2	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2018-01-31-07** **Date: 03-02-18**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC roads and drains balance cross roads of attur Village in ward No.03
Agency	:	Sri.N.Jagadish, S/o T. Narayanappa, No.23, MBW Bicks, Ananthapura, SN Halli Post, Yelahanka Bangalore-560 064.
Customer's Reference	:	EE(Project)/YnkZone/WO/90/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-01-18
Sample ID No	:	2018-01-31-07 /01
Sample Type/Size	:	Solid concrete blocks of size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	31-01-18

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	202	201	16322	32.850	2012.6	1992.2	Not less than 1800Kg/m^3
2	401	203	202	16443	32.570	1980.7		
3	402	202	202	16403	32.530	1983.1		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.910	32.510	4.31	4.28	Shall not be more than 10% by mass
2	33.590	32.150	4.48		
3	33.810	32.490	4.06		

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Lab ID : **CP-2018-01-31-07** **Date: 03-02-18**

Sample ID No : **2018-01-31-07**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	202	203	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	202	201	
3	403	203	203	
4	401	200	200	
5	400	198	198	
6	405	198	202	
7	400	203	201	
8	404	201	200	
9	403	201	203	
10	401	203	201	
11	402	201	203	
12	402	203	201	
13	401	202	201	
14	403	203	203	
15	402	201	200	
16	401	202	199	
17	403	203	201	
18	401	201	202	
19	402	203	203	
20	405	201	201	
Average of 20	**402**	**202**	**201**	

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Lab ID : **CP-2018-01-31-07** **Date: 03-02-18**

Sample ID No : 2018-01-31-07

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	402	202	81204		0.0	0.0
2	401	202	81002		0.0	
3	403	203	81809		0.0	
4	401	200	80200		0.0	
5	400	198	79200		0.0	
6	405	198	80190		0.0	
7	400	203	81200		0.0	
8	404	201	81204		0.0	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-02-13-02** **Date: 16/02/2018**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Construction of CC roads and drains balance cross roads of attur Village in ward No.03

Agency : Sri.N.Jagadish, S/o T. Narayanappa, No.23, MBW Bicks, Ananthapura, SN Halli Post, Yelahanka Bangalore-560 064.

Customer's Reference : EE(Project)/YnkZone/WO/90/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-02-18

Sample ID No : 2018-02-13-02 /01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/02/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	09/02/2018	16/02/2018	148.90 X 151.05 X 150.32	22491	8.166	407.1	18.1	17.5
2	M20 Concrete	M20	09/02/2018	16/02/2018	150.78 X 150.33 X 149.22	22667	8.154	394.4	17.4	
3	M20 Concrete	M20	09/02/2018	16/02/2018	148.19 X 151.32 X 151.90	22424	8.143	383.5	17.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-02-13-02**

Date: 09/03/2018

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Construction of CC roads and drains balance cross roads of attur Village in ward No.03

Agency : Sri.N.Jagadish, S/o T. Narayanappa, No.23, MBW Bicks, Ananthapura, SN Halli Post, Yelahanka Bangalore-560 064.

Customer's Reference : EE(Project)/YnkZone/WO/90/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-02-18

Sample ID No : 2018-02-13-02 /02

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	09/02/2018	09/03/2018	150.22 X 149.09 X 151.16	22396	8.026	503.9	22.5	22.6
2	M20 Concrete	M20	09/02/2018	09/03/2018	149.17 X 151.98 X 150.26	22671	8.016	514.6	22.7	
3	M20 Concrete	M20	09/02/2018	09/03/2018	150.27 X 149.02 X 150.32	22393	8.176	506.1	22.6	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-02-20-08** **Date: 22/02/2018**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Construction of CC roads and drains balance cross roads of attur Village in ward No.03

Agency : Sri.N.Jagadish, S/o T. Narayanappa, No.23, MBW Bicks, Ananthapura, SN Halli Post, Yelahanka Bangalore-560 064.

Customer's Reference : EE(Project)/YnkZone/WO/90/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-02-18

Sample ID No : 2018-02-20-08 /01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/02/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	15/02/2018	22/02/2018	150.15 X 150.22 X 150.21	22556	8.215	383.4	17.0	17.1
2	M20 Concrete	M20	15/02/2018	22/02/2018	150.21 X 150.22 X 150.10	22565	8.244	392.6	17.4	
3	M20 Concrete	M20	15/02/2018	22/02/2018	150.22 X 150.29 X 150.23	22577	8.213	381.5	16.9	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-02-20-08** **Date: 15/03/2018**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Construction of CC roads and drains balance cross roads of attur Village in ward No.03

Agency : Sri.N.Jagadish, S/o T. Narayanappa, No.23, MBW Bicks, Ananthapura, SN Halli Post, Yelahanka Bangalore-560 064.

Customer's Reference : EE(Project)/YnkZone/WO/90/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-02-18

Sample ID No : 2018-02-20-08 /02

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	15/02/2018	15/03/2018	150.22 X 149.09 X 151.16	22396	8.026	517.4	23.1	22.8
2	M20 Concrete	M20	15/02/2018	15/03/2018	149.17 X 151.98 X 150.26	22671	8.016	519.2	22.9	
3	M20 Concrete	M20	15/02/2018	15/03/2018	150.27 X 149.02 X 150.32	22393	8.176	503.8	22.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-02-20-08** **Date: 23/02/2018**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Construction of CC roads and drains balance cross roads of attur Village in ward No.03

Agency : Sri.N.Jagadish, S/o T. Narayanappa, No.23, MBW Bicks, Ananthapura, SN Halli Post, Yelahanka Bangalore-560 064.

Customer's Reference : EE(Project)/YnkZone/WO/90/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-02-18

Sample ID No : 2018-02-20-08 /03

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/02/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	16/02/2018	23/02/2018	149.43 X 151.22 X 149.54	22597	8.165	390.9	17.3	17.4
2	M20 Concrete	M20	16/02/2018	23/02/2018	150.90 X 150.42 X 150.32	22698	8.19	401.8	17.7	
3	M20 Concrete	M20	16/02/2018	23/02/2018	140.34 X 149.32 X 150.11	20956	8.134	358.3	17.1	

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